CALHOUN
Port Authority
POINT COMFORT, TEXAS★USA

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www.calhounport.com

PORT OF PORT LAVACA - POINT COMFORT

Providing Calhoun County Industries with Direct Deep-Draft Access to Global Markets

MEMORANDUM

TO: Calhoun Port Authority Board Members

FROM: Charles R. Hausmann, Port Director

DATE: August 6, 2019

SUBJECT: Agenda Item No. 11, Review and Consideration of Authorization to Advertise for Bids on the Dry Bulk Dock Power Refeed Project.

Members of the Board, I have attached an interoffice memorandum from David M. Knuckey, for your review. He has provided a tentative schedule for the proposed project which will begin in August and hopefully be completed by January of 2020. Also attached is a complete scope of work from G&W Engineers. The preliminary estimate for the power refeed project is $220,000.00 and is included in the budget.

Please feel free to contact me, if you have any questions regarding this agenda item.

Cc: David Roberts, Port General Counsel
Forrest E. Hawes, Deputy Port Director
David M. Knuckey, Director of Engineering Services

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INTEROFFICE MEMORANDUM

To: Charles R. Hausmann, Port Director
Forrest E. Hawes, Deputy Port Director

From: David M. Knuckey, P.E., Director, Engineering Services

Date: August 6, 2019

Subject: Request to Advertise for Bids
Dry Bulk Dock Power Refeed Project

At this time I am requesting authorization to advertise for bids for the Dry Bulk Dock Power Refeed Project. The scope of work includes providing temporary 480-volt power to the terminal while the existing transformer is re-tapped for a different primary voltage and construction of the primary electrical service to be fed by AEP, Texas.

The anticipated schedule is as follows:

August 17, 2019	First Advertisement for Bids
August 22, 2019	Pre-Bid Conference
August 24, 2019	Second Advertisement for Bids
September 11, 2019	Bid Opening
September 11, 2019	Award of Contract (tentative)
October 1, 2019	Sign Contract and Issue Notice to Proceed (tentative)
October 16, 2019	Start Construction (tentative)
January 15, 2020	Substantial Completion (90 Calendar Days) (tentative)

A more detailed scope of work provided by G & W Engineers is attached.

attachment

FOR APPROVAL

CALHOUN PORT AUTHORITY

2313 F.M. 1593 South
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PROJECT SCOPE OF WORK

Dry Bulk Dock Power Refeed Project

Calhoun Port Authority

Project Location: Point Comfort, TX
Document No.: SOW-9171.312
Date / Revision: June 24, 2019 / A

Summary Scope of Work

Furnish all equipment, devices, material, labor, tools, freight, and supervision as indicated herein and within the project design and contract documentation for the entire installation associated with the Calhoun Port Authority (CPA) Dry Bulk Dock (DBD) Power Refeed Project. The main components of the project are as follows:

1. Installation of temporary power feed to the DBD MCC Building
2. Modification of the existing DBD MCC Building power source from a private 13.8kv source to a 12.47kv utility source
3. Reconfiguration of the existing DBD, 7.5mva, 13.8kv/4160v, transformer (T-1) to accept a primary voltage of 12.47kv
4. Placing reconfigured transformer in service, using the 12.47kv source feed

Detailed Scope of Work

The detailed scope of work consists of providing all of the installation required for the entire project scope, and will include the items listed below, as well as all work indicated on the respective project design documentation. The work will consist primarily of the following:

1. Installation of Temporary Power Feed to the DBD Building

This portion of work consists of performing all of the required work to provide a temporary power supply to the DBD Building, in order to maintain electrical power during the transformer T-1 reconfiguration work. The temporary electrical supply to the DBD MCC Building will be placed in service when the normal service to the DBD MCC Bldg. is discontinued.

> NOTE: The existing electrical supply phase rotation/sequence shall be maintained at all times. Before placing the temporary electrical supply in service verify the existing phase rotation/sequence, and record accordingly. Confirm and adjust accordingly such that the temporary electrical supply phase rotation matches the existing/normal phase rotation. Repeat phase rotation confirmation when transitioning back to the normal supply.

Reference the following documentation:
Drawings: ET1.1, ET1.2, ER1.1
E1.1 (For Reference Only – shows load end of exist. supply being used for temporary supply)
E8.2 (For Reference Only – shows supply end of exist. supply being used for temporary supply)

NOTE: Any and all electrical installation work for the entire project is to be performed only on de-energized equipment, components, and devices. No "hot" work is to be performed, without the notification, and approval of the "Owner". Lockout/tagout (LOTO) will be required for all work.

NOTE: Use caution to insure that the existing DBD MCC Bldg. power supply and the temporary DBD MCC Bldg. power supply are not connected to each other.

2. Modification of the Existing DBD MCC Building Supply from a Private 13.8kv Source to a 12.47kv Utility Source
This portion of work consists of performing all of the required work to provide a 12.47kv power feed to the DBD MCC Building, using the existing supply conductors. The existing private 13.8kv supply (not conductors) is being discontinued, and will be replaced with a new utility (AEP) 12.47kv supply. The existing 13.8kv conductors feeding the DBD MCC Building will be re-used. The existing supply conductors load end will remain as-is, the line end will be cut (in exist. cable tray), and re-routed to the new utility provider interconnection point, which will consist of furnishing/installing a new overhead distribution deadend riser pole structure equipped with a pole mounted fused disconnect switch. The deadend riser pole will be connected (via overhead conductors) to an AEP provided primary metering pole.
This portion of the work will be performed (started and completed) during the time period that the transformer T-1 is being reconfigured. The intent is to minimize the amount of time that the temporary supply is used.

NOTE: Test (megger) re-routed supply conductors after termination for proper installation and condition.

Reference the following documentation:
Drawings: CBGE-D-1000-02, ER1.1, ER1.2, ER1.3

3. Reconfiguration of the Existing DBD, 7.5mva, 13.8kv/4160v, Transformer T-1
This portion of work consists of performing all of the required work to have the existing 13.8kv/4160v transformer T-1 reconfigured for a 12.47kv primary supply voltage consisting of the following:

NOTE: Before proceeding with the de-energization/disconnection of transformer T-1, the Owner shall be provided with the transformer reconfiguration work

proposal from the facility performing the transformer reconfiguration service for Owner review and approval.

3a. Disconnection of transformer T-1 power, control, instrumentation, and grounding wiring/cabling

NOTE: No existing wiring documentation exists for the transformer T-1. Contractor shall develop "as-is" sketches of the transformer wiring before disconnecting any wiring. These sketches shall be used during transformer reconnection to insure wiring is properly reconnected.

3b. All lifting equipment requirements, loading/unloading requirements, and all hauling requirements
3c. All transformer reconfiguration work

Reference the following documentation:
Exhibits: Transformer Nameplate (existing)
Data Sheet: Transformer Reconfiguration Data Sheet, Data Sheet No. DS-T1

4. Placing Reconfigured Transformer in Service Using 12.47kv Source
This portion of work consists of performing all of the required work to return the reconfigured transformer to service using the 12.47kv source, which consists of the following:
4a. Placement of reconfigured transformer back to its original location, orientation, and functionality.
4b. Reconnection of transformer T-1 power, control, instrumentation, and grounding wiring/cabling

NOTE: Splicing of any conductors (new or reused) is not allowed without Owner notification, and approval.

4c. Confirmation of proper installation, removal of any temporary worker protection grounds, removal of LOTO devices, AEP notification, and transformer energization.
4d. Confirmation of proper motor rotation and adjustment if so required
4e. Disconnection of DBD MCC Building temporary power feed
4f. Re-establish normal power feed to DBD MCC Building panelboards.
4g. Confirmation of proper primary and secondary voltages
4h.Transformer tap adjustment (if necessary)
4i. Protective relay setting adjustments (if necessary)

Reference the following documentation:
Drawings: ET1.1
Contractor "as-is" wiring sketches

Design Documentation

1. Design documentation to be utilized in performance of this work is listed on the Project Design Documentation List.

Equipment/Material to Be Furnished by Contractor

1. All conduit, fittings, wireway, strut, support/attachment hardware
2. All poles, switches, mountings, fuses
3. All conductors, connectors, lugs
4. All termination devices, termination kits, lugs, cable and wire labeling
5. All wireway, pullboxes, handholes
6. All construction consumables
7. All items that are not shown to be provided by others as indicated on the project design drawings

Equipment/Material Provided by Others

1. Primary metering pole by AEP

Installation Provided by Others (Not Included Within This Scope of Work)

1. Primary metering pole by AEP

Checkout / Startup

1. Provide checkout/testing services for confirming proper equipment installation and wiring termination
2. Provide startup services for confirming proper motor rotation
3. Provide services for correcting any electrical installation errors, sub-standard installation, defects, and/or omissions
4. Provide services for placing equipment into service
5. Provide services for confirming proper operating voltages (primary/secondary)
6. Transformer tap adjustments (if necessary)
7. Protective relay adjustments (if necessary)
8. System troubleshooting

Submittal Requirements

Provide manufacturer's product catalog information, specification, and data sheets for the following:

1. All major equipment including:

Riser pole components (switch, fuses, fuse holders, crossarms, insulators, line hardware)
Pullbox

2. Transformer reconfiguration proposal documentation
3. Transformer "as-is" wiring sketches
4. All transformer testing documentation

Insurance Requirements

Per Contract documentation

Schedule
Provide the following schedule information with proposal:
Earliest start date
Starting and ending dates for each project portion
Estimated number of work weeks for each project portion
Work week days/hours

Commercial Terms
Per Contract documentation

Pricing
Per Contract documentation
Provide list of any and all exclusions, exceptions, assumptions, and/or clarifications

Revision History
NA

End of Document